

REMARKS

Reconsideration and allowance are respectfully requested in light of the above amendments and the following remarks.

The specification has been amended to delete translation notes unintentionally left in the specification. No new matter is believed to be incorporated into the specification.

Claims 1-9 have been canceled in favor of new claims 10-18, which better define the subject matter Applicant regards as the invention. Support for the subject matter of claims 10-18 is provided in the original claims and embodiments 1, 2, and 5-7.

Claims 1-9 were rejected, under 35 USC §102(e), as being anticipated by Dogan et al. (US 6,215,983). To the extent these rejections may be deemed applicable to new claims 10-18, Applicant respectfully traverses.

Claim 10 recites a converter that performs linear conversion of a plurality of transmission signals using channel estimation values that are estimated in an estimator. More specifically, the converter performs linear conversion of the transmission signals in accordance with the formula:

$$|\text{Sig}_{\text{out}}|_{N \times 1} = |\mathbf{x}|_{N \times M} \cdot |\text{Sig}_{\text{in}}|_{N \times 1},$$

where:

N and M are each an integer of 2 or greater than 2;

$|\text{Sig}_{\text{out}}|_{N \times 1}$ is a matrix of the plurality of transmission signals subjected to linear conversion in the converter;

$|\mathbf{x}|_{N \times M}$ is a matrix of coefficients determined from the channel estimation values estimated in the estimator; and

$|\text{Sig}_{\text{in}}|_{N \times 1}$ is a matrix of the plurality of transmission signals before linear conversion in the converter.

The claimed feature provides the advantage of enabling, by means of a simple configuration, a plurality of mobile station apparatuses to receive signals that suffer little from the influence of interference waves and delay waves.

By contrast to the above-noted claimed features, Dolan is directed to enabling complex phase equalization in a communication system. Dogan fails to disclose performing linear conversion of a plurality of transmission signals by the above-mentioned formula.

Accordingly, Applicant submits that Dogan does not anticipate the subject matter of claim 10. Therefore, allowance of claim 10 and all claims dependent therefrom is warranted.

In view of the above, it is submitted that this application is in condition for allowance and a notice to that effect is respectfully solicited.

If any issues remain which may best be resolved through a telephone communication, the Examiner is requested to telephone the undersigned at the local Washington, D.C. telephone number listed below.

Respectfully submitted,

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